

## **AIROBS™**

### **Application and Demonstration Data Set**

## **Installation Guide**

### **July 20, 2004**

#### **What hardware must I have in order to use AIROBS?**

You must have a standard PC running Microsoft Windows with a minimum RAM of 512MB and available disk space of 1GB.

#### **What software needs to be on my computer before I try to use AIROBS?**

You must have Microsoft Windows NT (Service Pack 6), Windows 2000, or Windows XP operating system. You must have ESRI ArcGIS 8.2 or 8.3 (either ArcView or ArcInfo). ESRI 3-D Analyst is necessary to use the 3-D analysis functions of AIROBS, although the other functions of AIROBS will operate without 3-D Analyst installed. You must have Microsoft Access 2000 and Excel 2000.

#### **What do I need to do to my computer before installing AIROBS?**

Create folders to store your AIROBS installation files and the demonstration database. The following folder structure is recommended.

```
C:\AIROBS\  
C:\AIROBS\Install\  
C:\AIROBS\ Demo_Data\
```

If you prefer, you can create the \AIROBS folder and its subfolders on a drive other than the C:\ drive, or on a networked server, which can be accessed by your computer through mapped drives or UNC connections. However, using the recommended folder structure above will save you several steps during the AIROBS setup process. To save you time, it is strongly recommended that you use the folder structure shown above for trying out AIROBS.

#### **How do I obtain the AIROBS installation and data files? Where do I place them on my computer?**

Download the required AIROBS files from the CADD/GIS Technology Center website: <https://tsc.wes.army.mil>. Place the installation zip file (AIROBS\_Rev1.2\_Install.zip) in the folder ...\\AIROBS\Install\ and place the demonstration data set file (AIROBS\_demo\_data.zip) in the folder ...\\AIROBS\ Demo\_Data\.

### **Once I've downloaded the files, how do I install AIROBS and the demonstration data set?**

1. Close all active applications that are running on the computer.
2. If you have already installed AIROBS and need to re-install it, first uninstall AIROBS according to the instructions provided under the next question.
3. In Windows Explorer, navigate to the folder ...\\AIROBS\\Install.
4. Double-click on the file **setup.exe** and follow the instructions. This will install the application to C:\\Program Files\\AIROBS and also files related to the application, such as the user manual, references, templates, and pictures.
5. In Windows Explorer, navigate to the folder ...\\AIROBS\\Data\\.
6. Unzip the file AIROBS\_demo\_data.zip by double-clicking it. When Winzip opens, click the Extract button. Extract the files to the folder ..\\AIROBS\\Demo\_Data\\.
5. If you obtained the demonstration data set from CD, you must remove the read-only property from the files. To do this, in Windows Explorer right-click on the Demo\_data folder, select Properties, un-check the "Read-only" box listed under the Attributes section, click the Apply button, check "Apply changes to this folder, subfolders and files", and click OK.

### **How do I remove the application?**

Removal of the application in Windows 2000 is done through the Add/Remove Programs function. To activate this function, navigate to Start > Settings > Control Panel > Add/Remove Programs, select the AIROBS program, and click the Change/Remove button.

### **How do I start AIROBS?**

Once the application is installed, you can run AIROBS the same way you run many other applications. Click the Windows Start button and navigate to Programs > AIROBS. If for any reason the application does not appear at this location, it can also be launched by navigation to the folder C:\\Program Files\\AIROBS and double-clicking on AIROBS.exe.

### **How do I set up AIROBS to access the demonstration data?**

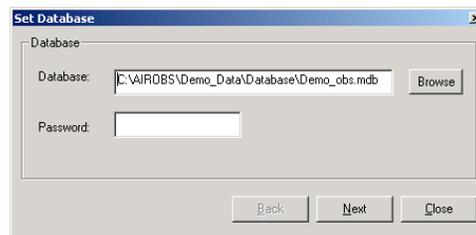
#### Standard Method (C:\\AIROBS folder used)

When AIROBS is started for the first time on your computer, it needs to know the name and location of the demonstration data set. If you placed the demonstration data in the C:\\AIROBS\\Demo\_data\\ folder, as recommended, this is done in two steps, as follows.

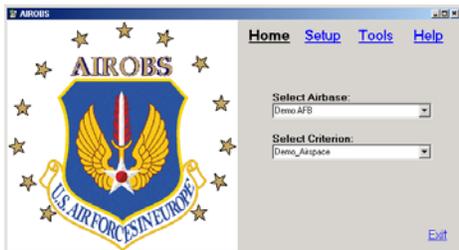
When AIROBS is started, you will see the AIROBS home screen.



Click the [Setup](#) tab to show the Setup screen, then click [Set Database](#). At the next screen, in the Database entry box, browse to the location of the obstructions database, C:\AIROBS\Demo\_Data\Database\Demo\_obs.mdb. Leave the Password entry blank. Click the Next button.



Click the [Home](#) tab and set the Airbase to Demo\_AFB and the Criterion to Demo\_Airspace.

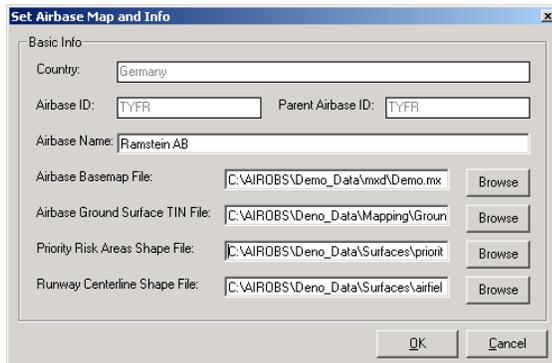


You have completed the installation and are now ready to use AIROBS as described in the User Manual.

### Non-Standard Method (folder structure other than C:\AIROBS\ was used)

If you chose to place the demonstration data in a folder other than C:\AIROBS\Demo\_data\ folder, complete the above step, plus the following steps.

Click the [Setup](#) tab and choose [Set Airbase Map and Info](#). You need to direct AIROBS where to find the various map layers that it uses.



For each entry, browse to the location shown below, then Click OK.

Airbase Basemap File:

: ... \AIROBS\Demo\_Data\mxd\Demo.mxd

Airbase Ground Surface TIN File:

... \AIROBS\Demo\_Data\Mapping\Ground\_TIN

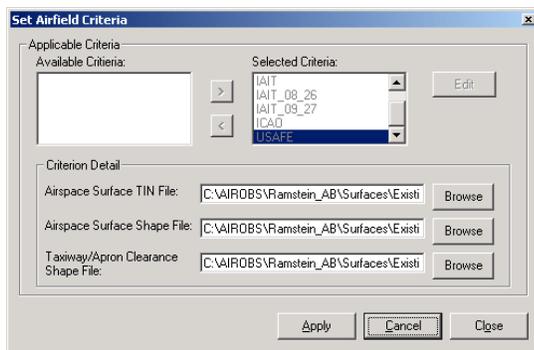
Priority Risk Area Shape File:

... \AIROBS\Demo\_Data\Surfaces\priority\_airfield\_buffer\_zone\_area.shp

Runway Centerline Shapefile:

... \AIROBS\Demo\_Data\Surfaces\airfield\_surface\_centerline.shp

Under the [Setup](#) tab, choose [Set Airfield Criteria](#). You need to direct AIROBS where to find the various map layers related to the regulatory airspace surface.



From the list of Available Criteria, select Demo\_Airspace (move it into the Selected Criteria box using the right arrow), and click Edit.

For each entry under Criterion Detail, browse to the location shown below. When complete, click Apply.

Airspace Surface TIN File:

...\\AIROBS\\Demo\_Data\\Surfaces\\Airspace\_TIN

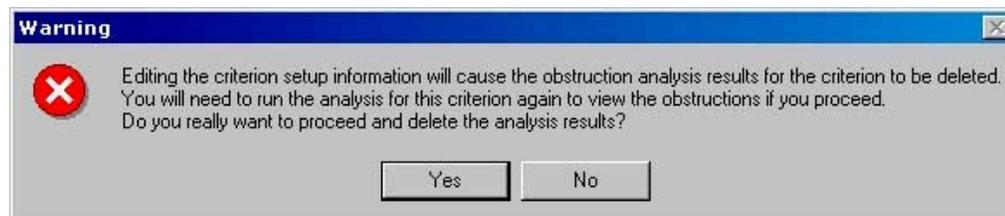
Airspace Surface Shape File:

...\\AIROBS\\Demo\_Data\\ Surfaces\\ airfield\_imag\_surface\_area.shp

Taxiway/Apron Clearance Shape File

...\\AIROBS\\Demo\_Data\\Surfaces\\ Apron\_Taxi\_airfield\_buffer\_zone\_area.shp

Modifying the setup of airspace criteria will result in related obstruction violations being deleted from the database. This is done to maintain data integrity. The following warning box will appear upon applying the modifications:



Click the Yes button. You will need to reanalyze the obstructions later to add the violations information back into the database.

*MXD Modification* AIROBS uses the ArcGIS project file demo.mxd to control what map layers are displayed and how they are symbolized in AIROBS. Demo.mxd is already set up for you. However, it references map layers that are expected to reside in the C:\\AIROBS\\Demo\_data\\mapping\\ path. Since you have chosen to place the map data in a different location, you must reset the source paths for those layers within the mxd. Exit AIROBS by clicking [Exit](#). Open demo.mxd in ArcMap. Reset the source path for each layer by right-clicking the layer name, choose Properties, choose the Source tab, and browse to the location in which the layer was placed. After each layer's source is reset, save the mxd file and exit ArcMap.

You can now restart AIROBS, and the map layers should be properly referenced.

*Obstructions Analysis* Since you reset the location paths of the files related to the airspace surface, you must perform a reanalysis of the obstructions. Follow the instructions for performing this analysis in the User Manual, pages 12 and 33.